ABSTRACT OF THE DISCLOSURE

A datagram transmission device whereby processing for performing determination of the transmission destination and transmission using the destination address and processing using information of layers other than the third layer of the protocol are performed by a simple algorithm. A first search function section searches for a transmission control rule using the destination address i.e. third layer information of a received datagram. A second search function section searches for a transmission control rule using information of this datagram other than the third layer. A decision function section inputs the search result of the second search function section and determines a transmission control rule that is contained in all the search results. A transmission control execution section executes action in accordance with the transmission control rule decided by the decision function section, specifically, searching and setting processing of the transmission route, transmission processing, processing to deny transmission, and processing to perform datagram copying etc.